

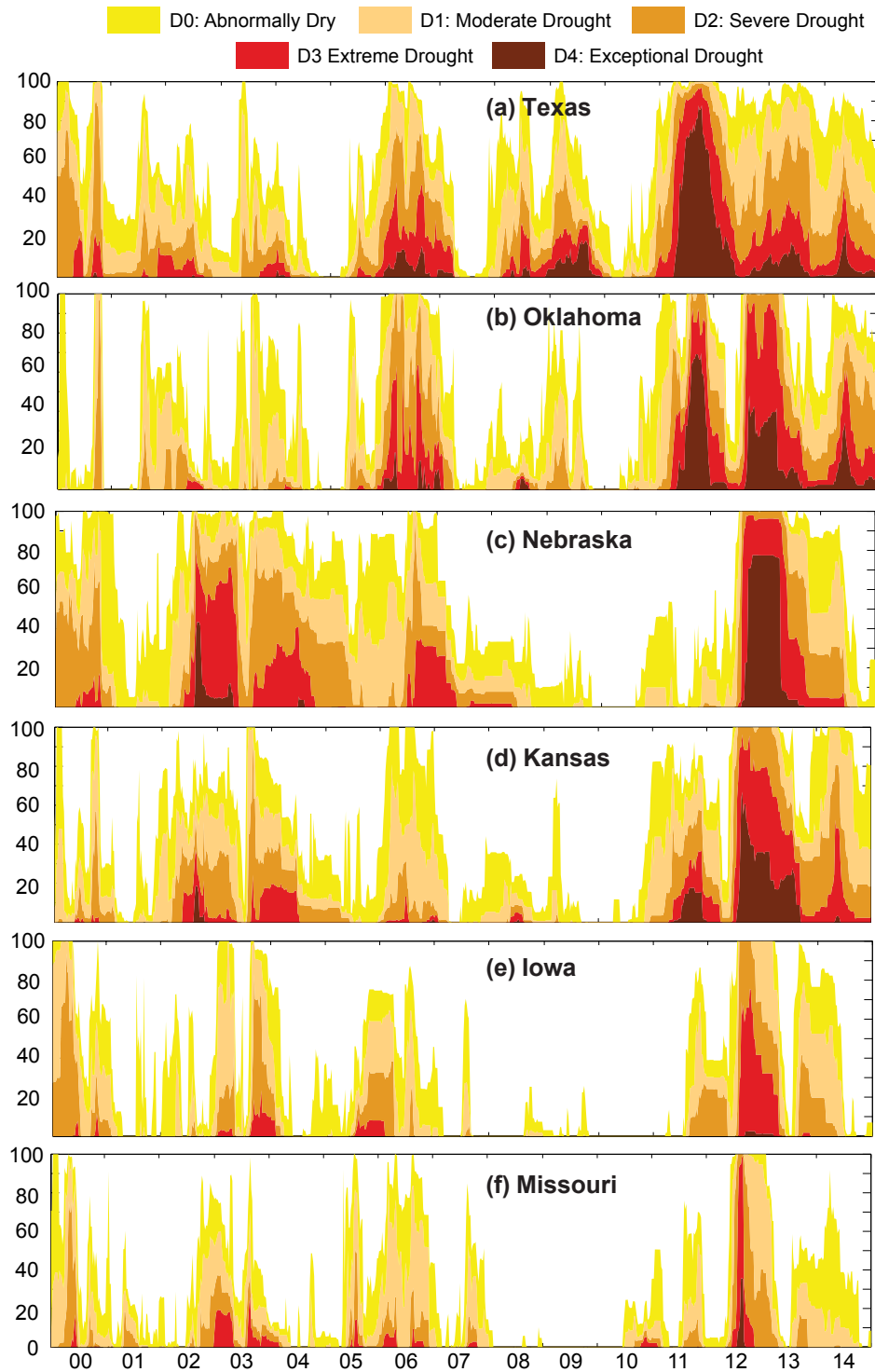
**Satellite solar-induced chlorophyll fluorescence reveals drought onset mechanisms: Insights from two contrasting extreme events**

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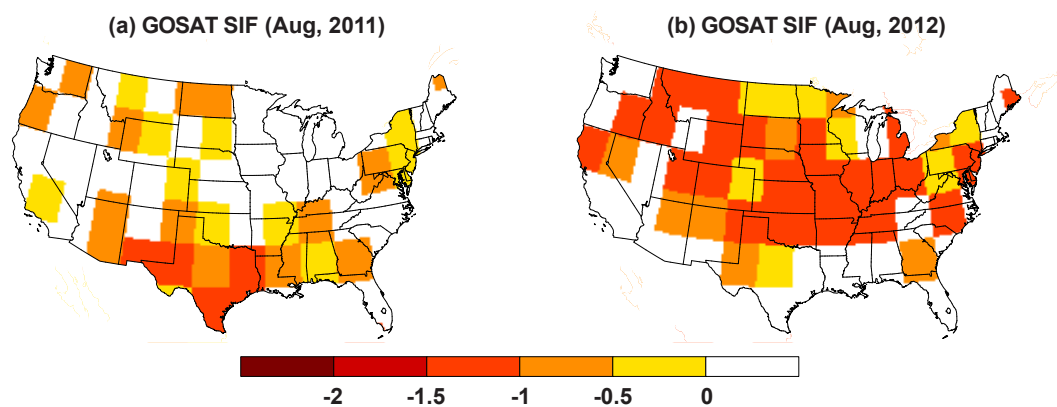
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Figures S1 to S2



**Figure S1.** Time series of drought intensity for six states that were strongly impacted by either the 2011 Texas drought (a-b) or the 2012 central Great Plains drought (c-f). Shown are the area fractions (%) of each drought category with respect to the corresponding state areas.



**Figure S2.** The SIF anomaly in August for the Texas drought (left) and the central Great Plains drought (right), similar to Figure 1c-d but for the GOSAT SIF.